

SPECIAL SPECIFICATION

SECTION 10160S

METAL TOILET COMPARTMENTS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Metal toilet compartments and urinal screens, and mounting and operating hardware.

1.02 ENVIRONMENTAL OBJECTIVES

- A. As described in section 01805 “Environmental Objectives”, the owner has determined that this project must be rated by LEED™ Version 2.0 green building rating system, which was issued in March 2000 by the U.S. Green Building Council, 1015 18th Street, NW, Suite 805, Washington, DC 20036. Phone: 202/ 82-USGBC (828-7422) Fax: 202/ 828-5110.
- B. While these goals and implementation strategies are incorporated within the Contract Documents, suggestions and input from the contractor for implementing these goals are encouraged. A team approach is encouraged.
- C. Manufacturer/ Fabricator to supply documentation of level of compliance or non-compliance with the following requirements before consideration as an “Acceptable Manufacturer”.
 - 1. The Design Team has determined that the following be mandatory requirements:
 - a. The product(s) supplied is to have a minimum weighted average of 20% post consumer recycled content material, OR, a minimum weighted average of 40% post-industrial recycled content material.
 - b. Comply with the requirements of section 01505S “Construction Waste Management”
 - 2. The Design Team has determined that the following be mandatory requirements for products specified for interior air-conditioned spaces:
 - a. Adhesives must meet or exceed the VOC limits of South Coast Air Quality Management District Rule #1168 by, AND all sealants used as a

filler must meet or exceed Bay Area Air Resources Board Reg. 8, Rule 51

3. The Design Team has determined that the following be a highly desirable objective:

a. The product(s) supplied is manufactured/fabricated within a radius of 500 miles from the project site and/or the manufactured/fabricated product(s) are extracted, harvested, or recovered within 500 miles of the project site.

D. Products that conform to the Environmental Objectives yet do not fully meet other requirements of this section may still be considered at the sole discretion of the Owner and Architect.

1.02 REFERENCES

- A. ANSI A 117.1 - Specifications for Making Buildings and Facilities Accessible to and Usable by Physically Handicapped People.
- B. ASTM A 167 - Stainless and Heat-Resisting Chromium Nickel Steel Plate, Sheet and Strip.
- C. ASTM A 424 - Steel Sheet for Porcelain Enameling.
- D. ASTM B 456 - Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.
- E. FS RR-P-1352 - Partitions, Toilet, Complete.
- F. PEI-S-100 - Specification for Architectural Porcelain Enamel on Steel for exterior use.

1.03 SUBMITTALS

- A. **Environmental Objectives Documentation: signed by the manufactures/fabricators stating level of compliance for the requirements and objectives in Environmental Objectives in section.**
- B. **Product Data: Submit manufacturer's product data and catalog cut sheets.**
- C. **Shop Drawings:**
 - 1. Indicate partition layouts, swing of doors, elevations, anchorage and mounting details, components, hardware, finishes, and relevant dimensions.

- 2. Furnish location template drawings for anchorage locations in supporting members for attachment of partitions.
- D.** Samples: Submit full range of color samples of actual finish (2 inch by 3 inch minimum size), not color photo representations.
- E.** Manufacturer's Instructions: Submit manufacturer's printed installation instructions.

1.04 QUALITY ASSURANCE

- A. Regulatory Requirements: Conform to ANSI A 117.1 for provisions for the physically handicapped (or local code if more stringent requirement is applicable).

1.05 DELIVERY, STORAGE AND HANDLING

- A. Store materials in weather tight location.
- B. Keep materials in original wrappers until installation is complete.

1.06 SEQUENCING AND SCHEDULING

- A. Coordinate Work with placement of anchorage devices and suspension members for ceiling hung assemblies. Supply rough-in data in sufficient time for concealed preparatory work to be conducted.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. American Sanitary Partition Corp.
- B. Global Steel Products Corp.
- C. Metpar Steel Products Corp.
- D. Sanymetal, A Crane Plumbing Co.

2.02 MATERIALS

A. Porcelain Enameling Sheet Steel:

1. ASTM A 424, Type I, Commercial Quality, **min. 30% total recycled steel composed of post-consumer and post-industrial content.**
2. Thickness:
 - a. Panels and Doors: 20 gage minimum.
 - b. Pilasters: 18 gage minimum.

Reinforcements: 12 gage thickness.

2.03 FABRICATION

A. Provide compartments of ceiling hung style.

B. Provide screens of wall hung style.

C. Take field measurements to ensure proper fitting of Work. Shop assemble to greatest extent possible.

D. Partitions, Pilasters, Screens, and Doors:

1. Fabricate partitions in accordance with FS-RR-P-1352. Assemble to greatest extent possible. Make cutouts for toilet accessories at factory.
2. Provide formed and closed edges for doors, panels, and pilasters. Miter and weld corners and grind smooth.
3. Provide internal reinforcement in areas of attached hardware and fittings. Mark locations of reinforcement for partition mounted washroom accessories.

E. Dimensions:

1. Doors: 1-inch thick minimum units; 24-inch wide inward swing doors and 32-inch wide outward swing doors for handicapped stalls.
2. Pilasters: Manufacturer's standard, 1-1/4 inch minimum thickness.
3. Panels: Manufacturer's standard 1 inch minimum unit.
4. Urinal screens: 1 inch thick minimum, 18 inches wide by 42 inches tall unless noted or shown otherwise.

- F. Supports and Hangers: Equip pilasters with leveling devices, anchor studs, and locking nuts.
- G. Pilaster Shoes: Plinths, one piece, hemmed top and bottom, formed to fit pilaster, equipped with concealed clips, 3-inch height, 20 gage stainless steel.
- H. Wall Brackets: Panel brackets, two ear, "T" style.
- I. Pilaster to Pilaster Brackets: Stirrup style brackets.

2.04 FACTORY FINISHING

- A. Clean, degrease, and neutralize panels.
- B. Follow with a phosphatizing treatment, prime coat and two finish coats baked enamel of colors as selected by Architect.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Check areas scheduled to receive partitions for correct dimensions, plumbness of walls, soundness of wall surfaces, location of built-in framing/anchorages/bracing, and other conditions that would affect proper installation of holding brackets and anchorage or suspension devices.
- B. Verify spacing of plumbing fixtures to assure compatibility with installation of partitions.
- C. Beginning of installation means acceptance of existing substrate.

3.02 INSTALLATION

- A. General:
 - 1. Install partitions and screens rigid, straight, plumb, and level.
 - 2. Maintain clearances of not more than 1/2-inch between pilasters and panels.
 - 3. Maintain clearances of not more than 1 inch between panels and walls.
 - 4. Secure panels to walls with not less than two stirrups brackets, attached near top and bottom of panel.
 - 5. Locate wall brackets so that holes for wall anchorages occur in tile joints.

6. Conceal evidence of drilling, cutting, and fitting to room finish.
- B. Ceiling Hung Partitions:
1. Secure pilasters to supporting structural framing using threaded pilaster hangers.
 2. Verify that pilaster hangers do not transmit load to finished ceiling.
 3. Level, plumb, and tighten installation with leveling device.
 4. Secure pilaster shoes in position.
 5. Set bottoms of doors level with bottom of pilasters when doors are in closed position.
- C. Wall-mounted Panels and Screens:
1. Attach to wall with anchoring devices and wall brackets.
 2. Position, level, and tighten units.

3.03 ADJUSTING

- A. Adjust and lubricate hardware for proper operation after installation.
- B. Set hinges on inward swing doors to hold doors open approximately 30 degrees from closed position when unlatched.
- C. Set hinges on outward swing doors to return to fully closed position.
- D. Perform final adjustments to leveling devices and hardware.
- E. Adjust and align hardware for uniform clearance at vertical edges of doors not exceeding 3/16-inch.

3.04 CLEANING

- A. Clean surfaces free of oil, dirt, and imperfections.

END OF SECTION